

**Table S1. Primers used in this study.**

| Primer | Sequence (5'-3')                                 | Relevant characteristics  |
|--------|--|---|
| 33AD-F | CATATGGCCATGGAGGCCAGTGAATTCATGCAGCCGTTTCGCTCGTCC | Amplification of the full-length cDNA sequence of <i>FgMDM33</i> for fusion with pGADT7 plasmid |
| 33AD-R | CGATGCCACCCGGGTGGAATTCTCATCTTCGAACCATTAGTA       |   |
| 33BK-F | CATATGGCCATGGAGGCCGAATTCATGCAGCCGTTTCGCTCGTCC    | Amplification of the full-length cDNA sequence of <i>FgMDM33</i> for fusion with pGBKT7 plasmid |
| 33BK-R | CGACGGATCGCCGGAATTCTCATCTTCGAACCATTAGTA          |   |
| 1AD-F  | CATATGGCCATGGAGGCCAGTGAATTCATGGCTGGTGATACTTGTC   | Amplification of the full-length cDNA sequence of <i>FgMMM1</i> for fusion with pGADT7 plasmid  |
| 1AD-R  | TCGATGCCACCCGGGTGGAATTCTAACTATGGAGTCGGGATCT      |   |
| 1BK-F  | CATATGGCCATGGAGGCCGAATTCATGGCTGGTGATACTTGTC      | Amplification of the full-length cDNA sequence of <i>FgMMM1</i> for fusion with pGBKT7 plasmid  |
| 1BK-R  | CGACGGATCGCCGGAATTCTAACTATGGAGTCGGGAT            |   |
| 10AD-F | CATATGGCCATGGAGGCCAGTGAATTCATGCGCGAGTTTATGGACTA  | Amplification of the full-length cDNA sequence of <i>FgMDM10</i> for fusion with pGADT7 plasmid |
| 10AD-R | TCGATGCCACCCGGGTGGAATTCTTATGATGAAAAGTGAATTT      |   |
| 10BK-F | CATATGGCCATGGAGGCCGAATTCATGCGCGAGTTTATGGACTA     | Amplification of the full-length cDNA sequence of <i>FgMDM10</i> for fusion with pGBKT7 plasmid |
| 10BK-R | TCGACGGATCGCCGGAATTCTTATGATGAAAAGTGAAT           |   |
| 12AD-F | CATATGGCCATGGAGGCCAGTGAATTCATGTCAATTGAATTAACTG   | Amplification of the full-length cDNA sequence of <i>FgMDM12</i> for fusion with pGADT7 plasmid |
| 12AD-R | TCGATGCCACCCGGGTGGAATTCTTACACCAAAAAGTCCAGA       |   |
| 12BK-F | CATATGGCCATGGAGGCCGAATTCATGTCAATTGAATTAACTG      | Amplification of the full-length cDNA sequence of <i>FgMDM12</i> for fusion with pGBKT7 plasmid |
| 12BK-R | TCGACGGATCGCCGGAATTCTTACACCAAAAAGTCCAG           |   |
| 34AD-F | CATATGGCCATGGAGGCCAGTGAATTCATGGCCTTCAACTTCAACTG  | Amplification of the full-length cDNA sequence of <i>FgMDM34</i> for fusion with pGADT7 plasmid |
| 34AD-R | GATGCCACCCGGGTGGAATTCTTATCGAGTAGCTGCCTC          |   |
| 34BK-F | CATATGGCCATGGAGGCCGAATTCATGGCCTTCAACTTCAACTG     | Amplification of the full-length cDNA sequence of <i>FgMDM34</i> for fusion with pGBKT7 plasmid |
| 34BK-R | GACGGATCGCCGGAATTCTTATCGAGTAGCTGCCT              |   |
| P1AD-F | CATATGGCCATGGAGGCCAGTGAATTCATGGCTGGCGCTGCACGAG   | Amplification of the full-length  |

|         |  |  |
|---------|--|--|
| P1AD-R  | TCGATGCCACCCGGGTGGAATTCTTAAGCCCTGCCACTGACA       | cDNA sequence of <i>FgPHB1</i> for fusion with pGADT7 plasmid  |
| P1BK-F  | CATATGGCCATGGAGGCCGAATTCATGGCTGGCGCTGCACGAG      | Amplification of the full-length cDNA sequence of <i>FgPHB1</i> for fusion with pGBKT7 plasmid   |
| P1BK-R  | TCGACGGATCGCCGGGAATTCTTAAGCCCTGCCACTGACA         |  |
| P1AD-F  | CATATGGCCATGGAGGCCAGTGAATTCATGTCGAACAACAACCTGGCA | Amplification of the full-length cDNA sequence of <i>FgPHB2</i> for fusion with pGADT7 plasmid   |
| P2AD-R  | CGATGCCACCCGGGTGGAATTCCTAGCTCTTATCGTTTTTGT       | Amplification of the full-length cDNA sequence of <i>FgPHB2</i> for fusion with pGBKT7 plasmid   |
| P2BK-F  | CATATGGCCATGGAGGCCGAATTCATGTCGAACAACAACCTGGCA    | Amplification of upstream fragment of <i>FgMDM33</i> for the gene deletion   |
| P2BK-R  | TCGACGGATCGCCGGGAATTCCTAGCTCTTATCGTTTTTGT        |  |
| 33-UF   | TCGGTCAGGTAGCGAAGA                               | Amplification of downstream fragment of <i>FgMDM33</i> for the gene deletion   |
| 33-UR   | TCCACTAGCTCCAGCCAAGCCAAGACGGCTAAAGG              |  |
| 33-DF   | AGTAGATGCCGACCGAACAACCTGTAGGGCTGGTAGTCG          | Amplification of the fragment, including full length ORF of <i>FgMDM33</i> and its upstream and downstream sequences                               |
| 33-DR   | TGGAGGCAGTTCGTGTTA                               |  |
| 33-NF   | ACATACCTGTCGTCGTGG                               | For identification of <i>FgMDM33</i> gene deletion mutants (presence or not), or <i>FgMDM33</i> complemented transformants                         |
| 33-NR   | CAAAGAGGCTGAGCTACA                               |  |
| 33YW-F  | CGCAACATCGTGTCAGTG                               | For identification of <i>FgMDM33</i> gene deletion mutants (size difference)   |
| 33YW-R  | CAAGAAGTTCATGCCATT                               |  |
| 33DX-F  | TGCTATTACCTGGTTGAG                               | Amplification of fragment including full length ORF of <i>FgMDM33</i> and its native promoter and terminator DNA sequences for the complementation |
| 33DX-R  | GGCTACCCTGGAAGATGG                               |  |
| 33Com-F | GGTACCCGGGATCCTCTAGAGGTATGAGCCGACGTGAGT          |  |
| 33Com-R | TGCCTGCAGGTCGACTCTAGACAGTAAAGTGATGTTGCGTTGG      |  |